

ABSTRACT OF THE DISCLOSURE

A piston type pumping apparatus comprises a vertically oriented cylinder having a top and a bottom with a first aperture. There are first and second passageways for liquid in the cylinder at the top and bottom respectively thereof. A piston is reciprocatingly mounted within the cylinder and has an area against which pressurized fluid acts in the direction of movement of the piston. A hollow piston rod is connected to the piston and extends below the piston and slidably through the first aperture. There is a reload chamber below the cylinder. The piston rod extends slidably into the reload chamber and has a third passageway for liquid communicating thereto. A first one-way valve is located in the third passageway. There is also a fourth passageway that extends from the reload chamber to a source of liquid to be pumped and a second one-way valve therein.